PROJECT NUMBER: 5001
PROJECT TITLE: Packaging Studies
PROJECT LEADER: H. R. Dunaway
PERIOD COVERED: May, 1990

I. PACKAGING STUDIES

A. **Objective:** Provide technical packaging support to Manufacturing, Manufacturing Services, Engineering, Purchasing, and Quality Assurance. In addition, assist New Products Directorate in evaluating new packaging concepts and products.

B. **Results:**

Residual Printing Solvents in Packaging Materials: Coordinated evaluation of the following items:

- Chesterfield Green Ink #89S403 (BASF)
- Replacement Additives for Phthalates in Inks (BASF)
- Marl 100 FT 20 (CHP - two samples comparing PPG & SCI water lacquers)
- Marl Lts KS FT 20 (CHP - two samples comparing PPG & SCI water lacquers)
- Saratoga 120 FT 20 (3F-950A/Alf)
- Gen Basic 100 FF SP 20 (L-641A/IPC)
- Gen Basic Lts 100 SP 20 (L-643A/IPC)
- Gen Basic Lts Men 100 SP 20 (L-645A/IPC)
- Gen Basic ULT 100 SP 20 (L-647A/IPC)
- PM Super Lts Men 62mm Tipping (11-155A/CHP)
- Printed Champagne Innerframe (Vitex)
- Next LT 100 SP 20 (4L-302D/Alf)
- PM# W-4350 Water Base Marl Red (DSI)
- Parliament Blue Ink #L-27157-C1 (American Ink)
- B&H Lts 100 SP 20 (4L-921A/Alf)
- B&H 100 Men SP 20 (3L-902A/Alf)
- L&M 80 FT 20/200/800 (51-802A/SP)
- PM Super Lts Men KS FT 20 (22-503A/SPW)
- PM Super Lts Men FT 20/200 (50-830A/SP)
- Next LT KS SP 20 (4L-300D/Alf)
- Ecusta 30036 Economy White Tipping
- Nicolmelt P-1662 Rewettable Adhesive (IGI)
- Henkel Foamaster B Defoamer

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Alkaline Process Label Stock: Packed samples of Marlboro KS labels were subjectively evaluated. Cigarettes packed in the alkaline process label were found to be comparable to those packed in the acid process control label.

Battistoni: Cigarettes packaged with domestically printed Battistoni blanks and cartons (Somerville Packaging) were subjectively evaluated and found to be comparable to those packed in the control Marlboro Lts materials.

Marlboro KS SP Labels: Based on subjective smoking results from two test matrices, developed with Purchasing Technical Services and Colonial Heights Packaging, a water base lacquer was recommended which allowed conversion to the new ink system at CHP. Testing continues to find acceptable alternative lacquers.

Gen Basic KS SP 20/200: A recommendation was made that cartons in this brand family not be used prior to two weeks after printing. Subsequent to unfavorable subjective smoking results in the initial evaluation of this offset printed carton, material sampled 15 days after printing was found to be acceptable.

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